

at least one of polarizing directions of said transmitted light and said reflected light is changed

whereby

both of said polarizing directions are made to be mutually coincident.

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43. (New) A polarization changing unit comprising: a polarizing element of Claim 42, and a lens array making a plurality of light beams incident on said polarizing element.

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44. (New) A polarization changing unit according to Claim 43, wherein said lens array is a cylindrical lens array or a fly eye lens array.

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45. (New) An image apparatus comprising
a polarizing element of claim 42;
a polarization changing unit of claim 44; and
an image generator for modulating a polarized light from said polarizing element or said polarization changing unit to generate an image light.

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46. (New) An image apparatus according to claim 45, further a projecting system for projecting said image light from said image generator.

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47. (New) An image apparatus comprising
a polarizing element of claim 42;
a polarization changing unit of claim 43; and
an image generator for modulating a polarized light from said polarizing element

or said polarization changing unit to generate an image light.

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48. (New) An image apparatus according to claim 47, further comprising a projecting system for projecting said image light from said image generator.

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49. (New) A polarizing element according to Claim 42,
wherein
right-angle prism means is disposed on said one surface so that a slant of said right-angle prism means is abutted on said the other surface,
whereby
a light is made to be incident on said transparent plate through one of mutually orthogonal planes of said right-angle prism means and
the light from said transparent plate is outgone through the other one of said mutually orthogonal planes.

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50. (New) A polarization changing unit comprising: a polarizing element of Claim 49, and a lens array making a plurality of light beams incident on said polarizing element.

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51. (New) A polarization changing unit according to Claim 50, wherein said lens array is a cylindrical lens array or a fly eye lens array.

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52. (New) An image apparatus comprising
a polarizing element of claim 49;
a polarization changing unit of claim 51; and

an image generator for modulating a polarized light from said polarizing element or said polarization changing unit to generate an image light.

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53. (New) An image apparatus according to claim 52, further a projecting system for projecting said image light from said image generator.

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54. (New) An image apparatus comprising
a polarizing element of claim 49;
a polarization changing unit of claim 50; and
an image generator for modulating a polarized light from said polarizing element or said polarization changing unit to generate an image light.

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55. (New) An image apparatus according to claim 54, further comprising a projecting system for projecting said image light from said image generator.

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56. (New) A polarizing element according to Claim 42,
wherein

said polarizing dividing film is formed on over all of said one surface and
said reflecting film is formed on all of said the other one surface.

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57. (New) A polarization changing unit comprising: a polarizing element of Claim 56, and a lens array making a plurality of light beams incident on said polarizing element.

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58. (New) A polarization changing unit according to Claim 57, wherein said lens

array is a cylindrical lens array or a fly eye lens array.

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59. (New) An image apparatus comprising
a polarizing element of claim 56;
a polarization changing unit of claim 58; and
an image generator for modulating a polarized light from said polarizing element
or said polarization changing unit to generate an image light.

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60. (New) An image apparatus according to claim 59, further a projecting system
for projecting said image light from said image generator.

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61. (New) An image apparatus comprising
a polarizing element of claim 56;
a polarization changing unit of claim 57; and
an image generator for modulating a polarized light from said polarizing element
or said polarization changing unit to generate an image light.

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62. (New) An image apparatus according to claim 61, further comprising a
projecting system for projecting said image light from said image generator.

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63. (New) A polarizing element according to Claim 42,
wherein
said polarizing dividing film is formed on over all of said one surface and
said reflecting film is intermittently formed on said the other one surface.

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⁵⁷64. (New) A polarization changing unit comprising: a polarizing element of Claim ⁵⁷63, and a lens array making a plurality of light beams incident on said polarizing element.

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⁵⁸65. (New) A polarization changing unit according to Claim ⁵⁸64, wherein said lens array is a cylindrical lens array or a fly eye lens array.

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⁵⁷66. (New) An image apparatus comprising
 a polarizing element of claim ⁵⁷63;
 a polarization changing unit of claim ⁵⁹65; and
 an image generator for modulating a polarized light from said polarizing element or said polarization changing unit to generate an image light.

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⁶⁰67. (New) An image apparatus according to claim ⁶⁰66, further a projecting system for projecting said image light from said image generator.

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⁵⁷68. (New) An image apparatus comprising
 a polarizing element of claim ⁵⁷63;
 a polarization changing unit of claim ⁵⁸64; and
 an image generator for modulating a polarized light from said polarizing element or said polarization changing unit to generate an image light.

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⁶²69. (New) An image apparatus according to claim ⁶²68, further comprising a projecting system for projecting said image light from said image generator.

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70. (New) A polarizing element according to Claim ~~42~~,

wherein

said polarizing dividing film is intermittently formed on said one surface and

said reflecting film is formed on over all of said the other one surface.

~~65~~ 71. (New) A polarization changing unit comprising: a polarizing element of Claim

~~70~~ and a lens array making a plurality of light beams incident on said polarizing element.

~~46~~ 72. (New) A polarization changing unit according to Claim ~~71~~, wherein said lens

array is a cylindrical lens array or a fly eye lens array.

~~57~~ 73. (New) An image apparatus comprising

a polarizing element of claim ~~70~~;

a polarization changing unit of claim ~~72~~; and

an image generator for modulating a polarized light from said polarizing element
or said polarization changing unit to generate an image light.

~~65~~ 74. (New) An image apparatus according to claim ~~73~~, further a projecting system

for projecting said image light from said image generator.

~~69~~ 75. (New) An image apparatus comprising

a polarizing element of claim ~~70~~;

a polarization changing unit of claim ~~71~~; and

an image generator for modulating a polarized light from said polarizing element or said polarization changing unit to generate an image light.

76. (New) An image apparatus according to claim ⁶¹75, further comprising a projecting system for projecting said image light from said image generator.

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77. (New) A polarizing element according to Claim 42, wherein one of said transmitted light and said reflected light is once passed through a half wavelength plate to rotate the polarizing direction by 90 degree, whereby the polarizing directions of said transmitted light and said reflected light are made to be mutually coincident.

78. (New) A polarization changing unit comprising: a polarizing element of Claim 77, and a lens array making a plurality of light beams incident on said polarizing element.

79. (New) A polarization changing unit according to Claim 78, wherein said lens array is a cylindrical lens array or a fly eye lens array.

80. (New) An image apparatus comprising
a polarizing element of claim 77;
a polarization changing unit of claim 79; and
an image generator for modulating a polarized light from said polarizing element or said polarization changing unit to generate an image light.

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81. (New) An image apparatus according to claim 80, further a projecting system for projecting said image light from said image generator.

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82. (New) An image apparatus comprising
a polarizing element of claim 77;
a polarization changing unit of claim 78; and
an image generator for modulating a polarized light from said polarizing element or said polarization changing unit to generate an image light.

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83. (New) An image apparatus according to claim 82, further comprising a projecting system for projecting said image light from said image generator.

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84. (New) A polarizing element according to Claim 77, wherein said half wavelength plate is disposed on said transparent plate.

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85. (New) A polarization changing unit comprising: a polarizing element of Claim 84, and a lens array making a plurality of light beams incident on said polarizing element.

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86. (New) A polarization changing unit according to Claim 85, wherein said lens array is a cylindrical lens array or a fly eye lens array.

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87. (New) An image apparatus comprising
a polarizing element of claim 84;
a polarization changing unit of claim 86; and

an image generator for modulating a polarized light from said polarizing element or said polarization changing unit to generate an image light.

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88. (New) An image apparatus according to claim 87, further a projecting system for projecting said image light from said image generator.

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89. (New) An image apparatus comprising
a polarizing element of claim 84;
a polarization changing unit of claim 85; and
an image generator for modulating a polarized light from said polarizing element or said polarization changing unit to generate an image light.

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90. (New) An image apparatus according to claim 89, further comprising a projecting system for projecting said image light from said image generator.

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91. (New) A polarizing element according to Claim 77, wherein said half wavelength plate is disposed on a position apart from said transparent plate.

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92. (New) A polarization changing unit comprising: a polarizing element of Claim 91, and a lens array making a plurality of light beams incident on said polarizing element.

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93. (New) A polarization changing unit according to Claim 92, wherein said lens array is a cylindrical lens array or a fly eye lens array.

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94. (New) An image apparatus comprising
a polarizing element of claim 91;

a polarization changing unit of claim 93; and

an image generator for modulating a polarized light from said polarizing element
or said polarization changing unit to generate an image light.

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95. (New) An image apparatus according to claim 94, further a projecting system
for projecting said image light from said image generator.

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96. (New) An image apparatus comprising
a polarizing element of claim 91;
a polarization changing unit of claim 92; and
an image generator for modulating a polarized light from said polarizing element
or said polarization changing unit to generate an image light.

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97. (New) An image apparatus according to claim 96, further comprising a
projecting system for projecting said image light from said image generator.

98. (New) A polarizing element according to Claim 42³⁶, wherein one of said
transmitted light and said reflected light is twice passed through a quarter wavelength plate to
rotate the polarizing direction by 90 degree,

whereby the polarizing directions of said transmitted light and said reflected light
are made to be mutually coincident.

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99. (New) A polarization changing unit comprising: a polarizing element of Claim 92, and a lens array making a plurality of light beams incident on said polarizing element.

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100. (New) A polarization changing unit according to Claim 93, wherein said lens array is a cylindrical lens array or a fly eye lens array.

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101. (New) An image apparatus comprising
a polarizing element of claim 98;
a polarization changing unit of claim 94; and
an image generator for modulating a polarized light from said polarizing element or said polarization changing unit to generate an image light.

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102. (New) An image apparatus according to claim 101, further a projecting system for projecting said image light from said image generator.

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103. (New) An image apparatus comprising
a polarizing element of claim 98;
a polarization changing unit of claim 99; and
an image generator for modulating a polarized light from said polarizing element or said polarization changing unit to generate an image light.

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104. (New) An image apparatus according to claim 103, further comprising a projecting system for projecting said image light from said image generator.

⁹⁹105. (New) A polarizing element according to Claim ⁹²98, wherein said quarter wavelength plate is disposed on said transparent plate.

¹⁰⁰106. (New) A polarization changing unit comprising: a polarizing element of Claim ¹¹105, and a lens array making a plurality of light beams incident on said polarizing element.

¹⁰¹107. (New) A polarization changing unit according to Claim ¹⁰⁰106, wherein said lens array is a cylindrical lens array or a fly eye lens array.

¹⁰²108. (New) An image apparatus comprising
a polarizing element of claim ⁹⁹105;
a polarization changing unit of claim ¹⁰¹107; and
an image generator for modulating a polarized light from said polarizing element or said polarization changing unit to generate an image light.

¹⁰³109. (New) An image apparatus according to claim ¹⁰²108, further a projecting system for projecting said image light from said image generator.

¹⁰⁴110. (New) An image apparatus comprising
a polarizing element of claim ⁹⁹105;
a polarization changing unit of claim ¹⁰⁰106; and
an image generator for modulating a polarized light from said polarizing element or said polarization changing unit to generate an image light.